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## Amendments to the Claims:

1. (previously presented) An isolated protein comprising an amino acid sequence selected from the group consisting of:

SEO ID NO: 2 and

immunogenic fragments of SEQ ID NO: 2.

wherein said protein elicits the production of antibodies that interfere with invasion by *Babesia bovis* into erythrocytes.

- 2. -3. (cancelled)
- (previously presented) A nucleic acid, wherein said nucleic acid encodes a protein according to claim 1.
- 5.-6. (cancelled)
- (previously presented) A cDNA fragment comprising a nucleic acid according to claim 4.
- 8. (previously presented) A recombinant DNA molecule comprising
  - a nucleic acid according to claim 4, or
  - a cDNA fragment comprising (i);

wherein said cDNA fragment or said nucleic acid is under the control of a functionally linked promoter.

- 9. (previously presented) A live recombinant carrier comprising
  - a nucleic acid according to claim 4,
  - ii) a cDNA fragment comprising a nucleic acid according to claim 4,
  - iii) a recombinant DNA molecule comprising a nucleic acid according to claim 4, or

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iv) a recombinant DNA molecule comprising a cDNA fragment comprising a nucleic acid according to claim 4;

wherein said cDNA fragment or said nucleic acid is under the control of a functionally linked promoter.

- 10. (previously presented) A host cell comprising
  - i) a nucleic acid according to claim 4,
  - ii) a cDNA fragment comprising a nucleic acid according to claim 4,
  - a recombinant DNA molecule comprising a nucleic acid according to claim 4,
- iv) a recombinant DNA molecule comprising a cDNA fragment comprising a nucleic acid according to claim 4,
  - v) a live recombinant carrier comprising a nucleic acid according to claim 4,
- vi) a live recombinant carrier comprising a cDNA fragment comprising a nucleic acid according to claim 4,
  - vii) a live recombinant carrier comprising a recombinant DNA molecule comprising a nucleic acid according to claim 4, or
  - viii) a live recombinant carrier comprising a recombinant DNA molecule comprising a cDNA fragment comprising a nucleic acid according to claim 4;

wherein said nucleic acid or said cDNA fragment are under the control of a functionally linked promoter.

## 11. -25. (cancelled)